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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Rainer MARTIN

Appln. No. 09/980,020

Confirmation No.: 2987

Filed: January 25, 2002

Attorney Docket Q67428

Group Art Unit: Not Assigned

Examiner: Unknown

For: PROCESS AND DEVICE FOR THE SUPPRESSION OF NOISE AND ECHOES

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents
Washington, D.C. 20231

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Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

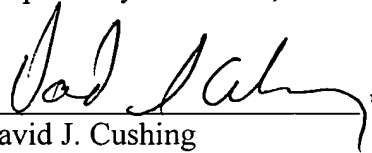
One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date for an application other than a continued prosecution application (CPA) under §1.53(d); (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

INFORMATION DISCLOSURE STATEMENT
U.S. Appln. No. 09/980,020

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,



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Substitute for form 1449 A & B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	09/980,020
Confirmation Number	2987
Filing Date	January 25, 2002
First Named Inventor	Rainer MARTIN
Art Unit	Not Assigned
Examiner Name	Unknown
Attorney Docket Number	Q67428

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US			
		US			
		US			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
		Yariv Ephraim et al, "Speech Enhancement Using a Minimum Mean-Square Error Short-Time Spectral Amplitude Estimator", IEEE TRANSACTIONS ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, Vol. ASSP-32, No. 6, December 1984, pp. 1109-1121	
		David Malah et al, "Tracking Speech-Presence Uncertainty to Improve Speech Enhancement in Non-Stationary Noise Environments", IEEE INTERNATIONAL CONFERENCE ACOUSTICS, SPEECH AND SIGNAL PROCESSING, 1999.	
		Jae S. Lim, "Image Restoration by Short Space Spectral Subtraction", IEEE TRANSACTIONS ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, Vol. ASSP-28, No. 2, April 1980, pp. 191-197-	
		Til Aach et al, "Spectral Estimation Filters for Noise Reduction in X-Ray Fluoroscopy Imaging", PROC. EUSPICO, 1996, pp. 571-574	
		Eberhard Hansler, "The hands-free telephone problem: an annotated bibliography", SIGNAL PROCESSING 27, 1992, pp. 259-271	
		Eberhard Hansler, "The hands-free telephone problem: an annotated bibliography update", ANN. TELECOMMUN. 49, 7-8, 1994, pp. 360-367	
		S. Gustafsson et al, "Combined acoustic echo control and noise reduction for hands-free telephony", SIGNAL PROCESSING 64 (1998) pp. 21-32	

Examiner Signature

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.